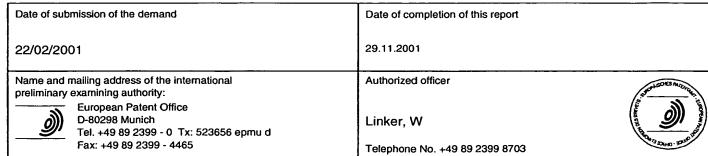


PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or age	ent's file reference	T	See Notifica	ation of Transmittal of International	
B0045WO			FOR FURTHER AC	TIALL	Examination Report (Form PCT/IPEA/416)	
International application No.			International filing date (day/month/year) Pri		Priority date (day/month/year)	
PCT/EP00/09136			18/09/2000		16/09/1999	
Internationa G01N33		ent Classification (IPC) or nat	tional classification and IPC	2		
Applicant						
WARNE	R-LA	MBERT COMPANY et	al.	•		
		ational preliminary exami smitted to the applicant a	•	prepared by this Inte	rnational Preliminary Examining Authority	
2. This I	REPO	PRT consists of a total of	5 sheets, including this	cover sheet.		
,		ule 70.16 and Section 60		Instructions under th	e PCT).	
3. This	eport	contains indications related	ting to the following iten	ns:		
1	\boxtimes	Basis of the report				
H		•				
HI						
IV		Lack of unity of inventio				
V Areasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement						
VI		Certain documents cite	ed			
VII		Certain defects in the in	ternational application			
VIII		Certain observations on	n the international applic	cation		
Date of submission of the demand				Date of completion of	this report	



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/09136

 Basis of the report 	t
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1.	the and	receiving Office in	nents of the international application (Replacement sheets which have been furnished to response to an invitation under Article 14 are referred to in this report as "originally filed" this report since they do not contain amendments (Rules 70.16 and 70.17)):	
	1-4	2	as originally filed	
	Cla	ims, No.:		
	1-3	0	as originally filed	
	Dra	wings, sheets:		
	1/8-	-8/8	as originally filed	
	Sec	quence listing part	of the description, pages:	
	1-10	02, as originally file	d .	
2.	 With regard to the language, all the elements marked above were available or furnished to this Authority in th language in which the international application was filed, unless otherwise indicated under this item. 			
	The	se elements were a	available or furnished to this Authority in the following language: , which is:	
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).	
		the language of pu	blication of the international application (under Rule 48.3(b)).	
		the language of a 55.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule	
3.			leotide and/or amino acid sequence disclosed in the international application, the yexamination was carried out on the basis of the sequence listing:	
	\boxtimes	contained in the in	ternational application in written form.	
		filed together with	the international application in computer readable form.	
		furnished subsequ	ently to this Authority in written form.	
		furnished subsequ	ently to this Authority in computer readable form.	
			the subsequently furnished written sequence listing does not go beyond the disclosure in oplication as filed has been furnished.	
		The statement that listing has been ful	t the information recorded in computer readable form is identical to the written sequence rnished.	
1	The	amondmente have	resulted in the cancellation of	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/09136

		the description,	pages:		
		the claims,	Nos.:		
		the drawings,	sheets:		
5. This report has been established as if (some of) the amendments had not been made, since they have considered to go beyond the disclosure as filed (Rule 70.2(c)):					
		(Any replacement sh report.)	eet contai	ning such	amendments must be referred to under item 1 and annexed to this
6.	Add	litional observations, i	f necessar	y :	
V.		soned statement un tions and explanatio			ith regard to novelty, inventive step or industrial applicability;
1.	Stat	ement			
	Nov	elty (N)	Yes: No:	Claims Claims	1-30
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-30
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-30
2.	Cita	tions and explanation	s		

see separate sheet

R Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: WITCHER DERRICK R ET AL: 'Characterization of the purified N-type Ca-2+ channel and the cation sensitivity of omega-conotoxin GVIA binding. NEUROPHARMACOLOGY, vol. 32, no. 11, 1993, pages 1127-1139, XP002165606 ISSN: 0028-3908

D2: BROWN JASON P ET AL: 'Cloning and deletion mutagenesis of the alpha2delta calcium channel subunit from porcine cerebral cortex. Expression of a soluble form of the protein that retains (3H)gabapentin binding activity. JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 273, no. 39, pages 25458-25465, XP002165607 ISSN: 0021-9258

D3: BROWN JASON P ET AL: 'Isolation of the (3H)gabapentin-binding protein/alpha2delta Ca2+ channel subunit from porcine brain: Development of a radioligand binding assay for alpha2delta subunits using (3H)leucine. ANALYTICAL BIOCHEMISTRY, vol. 255, no. 2, 15 January 1998 (1998-01-15), pages 236-243, XP002165608 ISSN: 0003-2697 cited in the application

Document D1 discloses the use of GST fusion proteins for the purification of Cachannel subunits, see the paragraph bridging page 1128 and 1129. This document (in combination with D2) is considered to be detrimental to the inventiveness of the subject-matter of use claims 10, 11, 15 and 16 (Article 33(3) PCT).

Document D2 discloses contacting a secreted soluble calcium channel alpha2delta subunit polypeptide with labelled gabapentin. On page 25462, right column, first paragraph, last sentence reference is made to the method of D3.

Document D3 discloses a method for screening of ligands, wherein the alpha2delta subunit is contacted with leucine and the level of binding of labelled gabapentin to the subunit is measured, see page 238 under "Radioligand Binding Assay" and Fig.2).

Therefore, the subject-matter of claims 1-9 and 20-30 appears to lack an inventive step

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in view of D2 in combination with D3 (Article 33(3) PCT).

The use of a histidine tag in purification methods as such apparently is already known in the art. Therefore, claims 12-14 and 17-19 would not appear to contain any addition feature which could be regarded as inventive in view of D2.